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CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

— of inventorship (Rule 4.17(iv)) for US only

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG,

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/01032

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B61B 11/00, 3/00, 7/00; B61C 13/00
US CL : 105/148

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 105/148, 150, 154; 104/89, 93; 184/15.1, 17; 384/463, 470; 474/161, 162, 207

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,993,328 A (WENDT ET AL) 19 FEBRUARY 1991, see entire document.	1-47
Y	US 5,947,260 A (SORBARA ET AL) 07 September 1999, see entire document.	1-3,5,9-12,16-21,25,28,29,36-45
Y	US 5,357,868 A (MAAS) 25 October 1994, see entire document.	6-8
Y,E	US 6,702,091 B2 (NIMMO ET AL) 09 MARCH 2004, see entire document.	27
Y,P	US 6,569,816 B2 (OOHIRA ET AL) 27 May 2003, see entire document.	13

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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Date of the actual completion of the international search

February 2005 (26.02.2005)

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/01032

Continuation of B. FIELDS SEARCHED Item 3:

PGPB, USPT, EP, AB, FPAB, DWPI, TDBD

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